ABSTRACT

ON-CHIP EMULATOR COMMUNICATION

There is disclosed a method of communicating with an

5   integrated circuit chip having plural components thereon,

the components including digital processing circuitry and

an on-chip emulator connected to the digital processing

circuitry for initiating command and control sequences

for the digital processing circuitry in response to

10   externally applied signals or in response to detected

states of the digital processing circuitry. The method

comprising of providing a universal serial bus having

first and second ends, the first end being connected to

the on-chip emulator; providing a computer device having

15   a digital processor, a universal serial bus port

connected to the second end of the universal serial bus,

and a second port for connection to a communication

channel; assigning at least one of the components with a

respective address; sending a remote procedure call from

20   the component over the universal serial bus to the

computer device, the remote procedure call including data

indicative of the address of the component; in response

thereto, causing the computer device to generate a socket

call over the communication channel thereby creating a

25   first socket at the computer device and a second socket

at a computer connected to the communication channel; in

the computer device, receiving a response at the first

socket; and sending information derived from the response

over the universal serial bus to the component.